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L23	l21 and l17	2	L23
L22	L21 or l21	250	L22
L21	mycobacterium vaccae	250	L21
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L19	mycobaterium	132	L19
L18	mycobacteriaum	4	L18
L17	bacilli calmette-guerin	1487	L17
L16	adjuvant OR adjuvants	122183	L16
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L12	L11 or l10	4	L12
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L9	inactivated adjuvants	13	L9
L8	L7 and l4	0	L8
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L6	bacille calmette-guerin	3108	L6
L5	mycobacterium vaccae	250	L5
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Cell Biology

ATCC® Number:	**CRL-1740™** Order this item	**Price:**	**$203.00**
Designations:	LNCaP clone FGC [LNCaP.FGC]	**Depositors:**	JS Horoszewicz
Biosafety Level:	1	**Shipped:**	frozen
Medium & Serum:	See Propagation	**Growth Properties:**	adherent, single cells and loosely attached clusters
Organism:	*Homo sapiens* (human)	**Morphology:**	epithelial PHOTO
Source:	**Organ:** prostate **Disease:** carcinoma **Tumor stage:** **Derived from metastatic site:** left supraclavicular lymph node		
Cellular Products:	human prostatic acid phosphatase; prostate specific antigen [21889]		
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.		

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Isolation:	**Isolation date:** 1977
Applications:	transfection host (technology from amaxa)
Receptors:	androgen receptor, positive; estrogen receptor, positive [23045]
Tumorigenic:	Yes, in soft agar Yes, the cells are tumorigenic in nude mice
Cytogenetic Analysis:	This is a hypotetraploid human cell line. The modal chromosome number was 84, occurring in 22% of cells. However, cells with chromosome counts of 86 (20%) and 87 (18%) also occurred at high frequencies. The rate of cells with higher ploidies was 6.0%.
Age:	50 years adult

Gender:	male
Ethnicity:	Caucasian
Comments:	LNCaP clone FGC was isolated in 1977 by J.S. Horoszewicz, et al., from a needle aspiration biopsy of the left supraclavicular lymph node of a 50-year-old Caucasian male (blood type B+) with confirmed diagnosis of metastatic prostate carcinoma. [21889] These cells are responsive to 5-alpha-dihydrotestosterone (growth modulation and acid phosphatase production). [23045] The cells do not produce a uniform monolayer, but grow in clusters which should be broken apart by repeated pipetting when subcultures are prepared. They attach only lightly to the substrate, do not become confluent and rapidly acidify the medium. Growth is very slow. The cells should be allowed to incubate undisturbed for the first 48 hours after subculture. When flask cultures are shipped, the majority of the cells become detached from the flask and float in the medium. Upon receipt, incubate the flask (in the usual position for monolayer cultures) for 24 to 48 hours to allow the cells to re-attach. The medium can then be removed and replaced with fresh medium. If desired, the contents of the flask can be collected, centrifuged at 300 X g for 15 minutes, resuspended in 10 ml of medium and dispensed into a single flask.
Propagation:	**ATCC complete growth medium:** RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10% **Temperature:** 37.0C **Atmosphere:** air, 95%; carbon dioxide (CO2), 5%
Subculturing:	**Protocol:** 1. Remove and discard culture medium. 2. Briefly rinse the cell layer with 0.25% (w/v) Trypsin- 0.53 mM EDTA solution to remove all traces of serum that contains trypsin inhibitor. 3. Add 2.0 to 3.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal. 4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting. 5. Add appropriate aliquots of the cell suspension to new culture vessels. Maintain cultures at a cell concentration between 1 X 10(4) and 2 X 10(5) cells/cm2. 6. Incubate cultures at 37°C. **Subcultivation ratio:** A subcultivation ratio of 1:3 to 1:6 is recommended **Medium renewal:** Twice per week
Preservation:	**Freeze medium:** Complete growth medium supplemented with 5% (v/v) DMSO **Storage temperature:** liquid nitrogen vapor phase
Doubling Time:	about 34 hours
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium): ATCC 30-2001 recommended serum: ATCC 30-2020 purified DNA: ATCC CRL-1740D
References:	21889: Murphy GP, editor. Models for prostate cancer. 37: New York: Liss; 1980, pp. 115-132. 22410: Gibas Z , et al. A high-resolution study of chromosome changes in a human prostatic carcinoma cell line (LNCaP). Cancer Genet. Cytogenet. 11: 399-404, 1984. PubMed: 6584201 23045: Horoszewicz JS , et al. LNCaP model of human prostatic carcinoma. Cancer Res. 43: 1809-1818, 1983. PubMed: 6831420 32283: Hu SX , et al. Development of an adenovirus vector with tetracycline-regulatable

human tumor necrosis factor alpha gene expression. Cancer Res. 57: 3339-3343, 1997. PubMed: 9269991
33090: Boffa LC , et al. Invasion of the CAG triplet repeats by a complementary peptide nucleic acid inhibits transcription of the androgen receptor and TATA-binding protein genes and correlates with refolding of an active nucleosome containing a unique AR gene sequence. J. Biol. Chem. 271: 13228-13233, 1996. PubMed: 8662737

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Cell Biology

ATCC® Number:	**HTB-81™** Order this item	**Price:**	**$203.00**
Designations:	DU 145	**Depositors:**	KR Stone
Biosafety Level:	1	**Shipped:**	frozen
Medium & Serum:	See Propagation	**Growth Properties:**	adherent
Organism:	*Homo sapiens* (human)	**Morphology:**	epithelial
Source:	**Organ:** prostate **Disease:** carcinoma **Tumor stage:** **Derived from metastatic site:** brain		
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.		

Related Cell Culture Products

Isolation:	(DU 145 was isolated by K.R. Stone et al from a lesion in the brain of a patient with metastatic carcinoma of the prostate and a 3 year history of lymphocytic leukemia.)
Applications:	transfection host (technology from amaxa)
Tumorigenic:	Yes, in nude mice; forms adenocarcinoma (grade II) consistent with prostatic primary
Antigen Expression:	Blood Type O; Rh+
Cytogenetic Analysis:	This is a hypotriploid human cell line. Both 61 and 62 chromosome numbers had the highest rate of occurrence in 30 metaphase counts.The rate of higher ploidies was 3%. The t(11q12q), del(11)(q23), 16q+, del(9)(p11), del(1)(p32) and 6 other marker chromosomes were found in most cells. The N13 was usually absent. The Y chromosome is abnormal through translocation to an unidentified chromosomal segment. The X chromosome was present in single copy.
Isoenzymes:	AK-1, 1; ES-D, 1; G6PD, B; GLO-I, 2; Me-2, 1-2; PGM1, 1; PGM3, 2
Age:	69 years
Gender:	male
Ethnicity:	Caucasian

Comments:	The line is not detectably hormone sensitive, is only weakly positive for acid phosphatase and isolated cells form colonies in soft agar. The cells do not express prostate antigen. Ultrastructural analyses of both the cell line and original tumor revealed microvilli, tonofilaments, desmosomes, any mitochondria, well developed Golgi and heterogenous lysosomes.
Propagation:	**ATCC complete growth medium:** Minimum essential medium (Eagle) with 2 mM L-glutamine and Earle's BSS adjusted to contain 1.5 g/L sodium bicarbonate, 0.1 mM non-essential amino acids, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10% **Temperature:** 37.0C **Atmosphere:** air, 95%; carbon dioxide (CO2), 5%
Subculturing:	**Protocol:** 1. Remove and discard culture medium. 2. Briefly rinse the cell layer with 0.25% (w/v) Trypsin - 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor. 3. Add 2.0 to 3.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37C to facilitate dispersal. 4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting. 5. Add appropriate aliquots of the cell suspension to new culture vessels. 6. Incubate cultures at 37C. **Subcultivation ratio:** A subcultivation ratio of 1:4 to 1:6 is recommended **Medium renewal:** 2 to 3 times per week
Preservation:	**Freeze medium:** Complete growth medium, 95%; DMSO, 5% **Storage temperature:** liqid nitrogen vapor temperature
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium): ATCC 30-2003 recommended serum: ATCC 30-2020 purified DNA: ATCC HTB-81D 0.25% (w/v) Trypsin - 0.53 mM EDTA in Hank' BSS (w/o Ca++, Mg++): ATCC 30-2101 Cell culture tested DMSO: ATCC 4-X
References:	22289: Papsidero LD , et al. Prostate antigen: a marker for human prostate epithelial cells. J. Natl. Cancer Inst. 66: 37-42, 1981. PubMed: 6935463 22858: Stone KR , et al. Isolation of a human prostate carcinoma cell line (DU 145). Int. J. Cancer 21: 274-281, 1978. PubMed: 631930 23028: Mickey DD , et al. Heterotransplantation of a human prostatic adenocarcinoma cell line in nude mice. Cancer Res. 37: 4049-4058, 1977. PubMed: 908039 23226: Pollack MS , et al. HLA-A, B, C and DR alloantigen expression on forty-six cultured human tumor cell lines. J. Natl. Cancer Inst. 66: 1003-1012, 1981. PubMed: 7017212 32283: Hu SX , et al. Development of an adenovirus vector with tetracycline-regulatable human tumor necrosis factor alpha gene expression. Cancer Res. 57: 3339-3343, 1997. PubMed: 9269991 32341: Sheng S , et al. Maspin acts at the cell membrane to inhibit invasion and motility of mammary and prostatic cancer cells. Proc. Natl. Acad. Sci. USA 93: 11669-11674, 1996. PubMed: 8876194 32460: Carter RE , et al. Prostate-specific membrane antigen is a hydrolase with substrate and pharmacologic characteristics of a neuropeptidase. Proc. Natl. Acad. Sci. USA 93: 749-753, 1996. PubMed: 8570628 32486: Nupponen NN , et al. Genetic alterations in prostate cancer cell lines detected by comparative genomic hybridization. Cancer Genet. Cytogenet. 101: 53-57, 1998. PubMed: 9460501 32768: Robinson D , et al. A tyrosine kinase profile of prostate carcinoma. Proc. Natl. Acad. Sci. USA 93: 5958-5962, 1996. PubMed: 8650201 32916: Su ZZ , et al. Surface-epitope masking and expression cloning identifies the human prostate carcinoma tumor antigen gene PCTA-1 a member of the galectin gene family. Proc. Natl. Acad. Sci. USA 93: 7252-7257, 1996. PubMed: 8692978 32925: Zhu X , et al. Cell cycle-dependent modulation of telomerase activity in tumor cells. Proc. Natl. Acad. Sci. USA 93: 6091-6095, 1996. PubMed: 8650224 33090: Boffa LC , et al. Invasion of the CAG triplet repeats by a complementary peptide

nucleic acid inhibits transcription of the androgen receptor and TATA-binding protein genes and correlates with refolding of an active nucleosome containing a unique AR gene sequence. J. Biol. Chem. 271: 13228-13233, 1996. PubMed: 8662737

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